



FORM PTO-1449

SEVENTEENTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.049000A/RWE/HCCAPPLICATION NO.  
10/024,149APPLICANT  
Kotewicz et al.FILING DATE  
December 21, 2001GROUP  
1652

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
<i>SDC</i>	AC2	5,017,488	05/21/1991	McAllister et al.			10/17/1986
	AD						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
<i>SR</i>	AT V	118	Arnold, E., et al., "Structure of HIV-1 reverse transcriptase/DNA complex at 7 Å resolution showing active site locations," Nature 357:85-89, Macmillan Journals Ltd. (May 1992)

EXAMINER *Robbe Chennu*DATE CONSIDERED *5/28/04*

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<i>Spc</i>	AR V	119	Coffin, J.M., et al., "Reverse Transcriptase and the Generation of Retroviral DNA," in <i>Retroviruses</i> , Coffin, J.M., et al., eds., Cold Spring Harbor Laboratory Press, Plainview, NY, pp. 121-160 (January 1997)
<i>Spc</i>	AS V	119	Goedken, E.R., and Marqusee, S., "Metal binding and activation of the ribonuclease H domain from Moloney murine leukemia virus," <i>Prot. Eng.</i> 12:975-980, Oxford University Press (November 1999)
<i>Spc</i>	AT V	119	Keck, J.L., and Marqusee, S., "Substitution of a highly basic helix/loop sequence into the RNase H domain of human immunodeficiency virus reverse transcriptase restores its Mn <sup>2+</sup> -dependent RNase H activity," <i>Proc. Natl. Acad. Sci. USA</i> 92:2740-2744, National Academy of Sciences (March 1995)

EXAMINER

*Bradley Chendrum*

DATE CONSIDERED

*8/28/04*

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>SDC</i>	AR V	120	Schultz, S.J., and Champoux, J.J., "RNase H Domain of Moloney Murine Leukemia Virus Reverse Transcriptase Retains Activity but Requires the Polymerase Domain for Specificity," J. Virol. 70:8630-8638, American Society for Microbiology (December 1996)
<i>SDC</i>	AS V	120	"Clontech's Notice Pursuant to 35 U.S.C. § 282," dated August 22, 2003, from Invitrogen Corporation v. Clontech Laboratories, Inc., U.S. District Court for the District of Maryland, Southern Division, Civil Action NO. AW 96-4080 and AW 00-1879
	AT		

EXAMINER

*Babbar Chenduru*

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	AN						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR			
SPK	AS V	117	Letter to Philip G. Hampton, II. from Marc R. Labgold, dated July 16, 2003, regarding <i>Invitrogen Corporation v. Clontech Laboratories, Inc.</i> , Civil Action Nos. AW-96-4080 and AW-00-1879	
SPK	AT V	117	"Report and Recommendation Regarding Clontech's Motion for Partial Summary Judgement that the Claims of the Patents-In-Suit Are Invalid for Failure to Satisfy the Written Description Requirement of 35 U.S.C. § 112, First Paragraph," dated July 10, 2003, from <i>Invitrogen Corporation v. Clontech Laboratories, Inc.</i> , U.S. District Court for the District of Maryland, Southern Division, Civil Action Nos. AW-96-4080 and AW-00-1879	

EXAMINER

*Rabha Chenduru*

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>gpc</i>	AR V	<u>118</u>	Letter to Philip G. Hampton, II. from Robert J. Koch, dated July 18, 2003, regarding Invitrogen Corporation v. Clontech Laboratories, Inc., Civil Action Nos. AW-96-4080 and AW-00-1879
<i>gpc</i>	AS V	<u>118</u>	Letter to Robert J. Koch and Marc R. Labgold from Philip G. Hampton, II., dated July 23, 2003, regarding Invitrogen Corporation v. Clontech Laboratories, Inc., Civil Action Nos. AW-96-4080 and AW-00-1879
	AT		

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*Bradley Chendrum*

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
<i>SPC</i>	AA1	4,663,290	05/05/1987	Weis et al.	435	253	01/21/1982
	AB1	4,795,699	01/03/1989	Tabor et al.	435	5	01/14/1987
	AC1	4,943,531	07/24/1990	Goff et al.	435	194	05/06/1985
	AD1	5,017,492	05/21/1991	Kotewicz et al.	435	252.3	02/27/1986
	AE1	5,244,797	09/14/1993	Kotewicz et al.	435	194	03/18/1991
	AF1	5,405,776	04/11/1995	Kotewicz et al.	435	252.33	01/24/1992
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>SPC</i>	AR	1	Akins, R.A. et al., "Mitochondrial Plasmids of Neurospora: Integration into Mitochondrial DNA and Evidence for Reverse Transcription in Mitochondria," Cell 47:505-516, Cell Press (1986).
<i>SPC</i>	AS	1	Bassin, R.H. et al., "Macromolecular Requirements for Abrogation of Fv-1 Restriction by Murine Leukemia Viruses," J. Virology 35(2):287-297, American Society for Microbiology (1980).
<i>SPC</i>	AT	1	Berger, S.L. et al., "Reverse Transcriptase and Its Associated Ribonuclease H: Interplay of Two Enzyme Activities Controls the Yield of Single-Stranded Complementary Deoxyribonucleic Acid," Biochemistry 23:2365-2372, American Chemical Society (1983).

EXAMINER

*Prabir Chandra*

DATE CONSIDERED

*5/28/04*

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.049000B/PWE/MTT	APPLICATION NO. 10/024,131
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SPC ↓	AR	2	Blain, S.W. and Goff, S.P., "Nuclease Activities of Moloney Murine Leukemia Virus Reverse Transcriptase," J. Biol. Chem. 268(31):23585-23592, American Society for Biochemistry and Molecular Biology, Inc. (1993).
	AS	2	Carter, P. and Wells, J.A., "Engineering Enzyme Specificity by 'Substrate-Assisted Catalysis,'" Science 237 394-399; American Association for the Advancement of Science (1987).
	AT	2	Fawcett, D.H. et al., "Transposable Elements Controlling I-R Hybrid Dysgenesis in D. melanogaster Are Similar to Mammalian LINES," Cell 47:1007-1015, Cell Press (1986).

EXAMINER <i>Betha Chunduru</i>	DATE CONSIDERED <i>8/28/04</i>
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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Spec</i>	AR	<u>3</u>	Finston, W.I. and Champoux, J.J., "RNA-Primed Initiation of Moloney Murine Leukemia Virus Plus Strands by Reverse Transcriptase In Vitro," <i>J. Virology</i> 51(1):26-33, American Society for Microbiology (1984).
<i>Spec</i>	AS	<u>3</u>	Gerard, G.F. et al., "Poly (2'-O-methylcytidylate) Oligodeoxyguanylate as a Template for the Ribonucleic Acid Directed Deoxyribonucleic Acid Polymerase in Ribonucleic Acid Tumor Virus Particles and a Specific Probe for the Ribonucleic Acid Directed Enzyme in Transformed Murine Cells," <i>Biochemistry</i> 13(8):1632-1641, Academic Press, Inc. (1974).
<i>Spec</i>	AT	<u>3</u>	Gerard, G.F. and Grandgenett, D.P., "Purification and Characterization of the DNA Polymerase and RNase H Activities in Moloney Murine Sarcoma-Leukemia Virus," <i>J. Virology</i> 15(4):785-797, American Society for Microbiology (1975).

EXAMINER <i>Prabha Chundum</i>	DATE CONSIDERED <i>5/28/04</i>
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	Gerard, G.F., "Multiple RNase H Activities in Mammalian Type C Retrovirus Lysates," J. Virology 26(1):16-28, American Society for Microbiology (1978).
	AS	<u>4</u>	Gerard, G.F., "Mechanism of Action of Moloney Murine Leukemia Virus RNase H III," J. Virology 37(2):748-754, American Society for Microbiology (1981).
	AT	<u>4</u>	Gerard, G.F. et al., "Influence on Stability in Escherichia coli of the Carboxy-Terminal Structure of Cloned Moloney Murine Leukemia Virus Reverse Transcriptase," DNA 5(4):271-279, Mary Ann Liebert, Inc. (1986).

EXAMINER <i>Brebla Chaudhury</i>	DATE CONSIDERED <i>8/28/04</i>
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802 ↓	AR	5	Gerwin, B.I. et al., "Mutant of B-Tropic Murine Leukemia Virus Synthesizing an Altered Polymerase Molecule," J. Virology 31(3):741-751, American Society for Microbiology (1979).
	AS	5	Gorecki, M. and Panet, A., "Discrimination of DNA Polymerase and RNase H Activities in Reverse Transcriptase of Avian Myeloblastosis Virus," Biochemistry 17(12):2438-2442, American Chemical Society (1978).
	AT	5	Johnson, M.S. et al., "Computer analysis of retroviral pol genes: Assignment of enzymatic functions to specific sequences and homologies with nonviral enzymes," Proc. Natl. Acad. Sci. USA 83-25:7648-7652, National Academy of Sciences (1986).

EXAMINER

Beale Chandra

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094203490008 RWE MITAPPLICATION NO.  
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SPC ↓	AR	6	Kamer, G. and Argos, P., "Primary structural comparison of RNA-dependent polymerases from plant, animal and bacterial viruses," <i>Nucl. Acids. Res.</i> 12(18):7269-7282, IRL Press Ltd. (1984).
	AS	6	Kotewicz, M.L. et al., "Cloning and overexpression of Moloney murine leukemia virus reverse transcriptase in <i>Escherichia coli</i> ," <i>Gene</i> 35:249-258, Elsevier Science Publishers (1985).
	AT	6	Kotewicz, M.L. et al., "Isolation of cloned Moloney murine leukemia virus reverse transcriptase lacking ribonuclease H activity," <i>Nucl. Acids Res.</i> 16(1):265-277, IRL Press Ltd. (1988).

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Prabha Chenduru

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SP6	AR	2	Lai, M.-H.T. and Verma, I.M., "Reverse Transcriptase of RNA Tumor Viruses. V. In Vitro Proteolysis of Reverse Transcriptase from Avian Myeloblastosis Virus and Isolation of a Polypeptide Manifesting Only RNase H Activity," J. Virology 25(2):652-663, American Society for Microbiology (1978).
	AS	2	Lai, M.-H.T. et al., "Mammalian Retrovirus-Associated RNase H Is Virus Coded," J. Virology 27(3):823-825, American Society for Microbiology (1978).
	AT	2	Levin, J.G. et al., "Murine Leukemia Virus Mutant with a Frameshift in the Reverse Transcriptase Coding Region: Implications for pol Gene Structure," J. Virology 51(2):470-478, American Society for Microbiology (1984).

EXAMINER

Bridle Chunduru

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SPC	AR	8	Maniatis, T. In: <i>Molecular Cloning, A Laboratory Manual</i> , Maniatis, T et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pp. 213 and 231 (1982).				
	AS	8	Meloun, B. et al., "Complete primary structure of thermitase from <i>Thermoactinomyces vulgaris</i> and its structural features related to the subtilisin-type proteinases," <i>FEBS Letters</i> 183(2):195-200, North-Holland Press (1985).				
	AT	8	Messer, L.I. et al., "Functional Analysis of Reverse Transcription by a Frameshift pol Mutant of Murine Leukemia Virus," <i>Virology</i> 146:146-152, Academic Press, Inc. (1985).				

EXAMINER

Barabak Chenduru

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FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
 0942.049000B/RWE/MTT

APPLICATION NO.  
 10/024,131

APPLICANTS  
 Kotewicz et al.

FILING DATE  
 December 21, 2001

GROUP  
 1652

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

8pc	AR	8	Maniatis, T. In: <i>Molecular Cloning, A Laboratory Manual</i> , Maniatis, T et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pp. 213 and 231 (1982).				
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	AT	8	Messer, L.I. et al., "Functional Analysis of Reverse Transcription by a Frameshift poi Mutant of Murine Leukemia Virus," <i>Virology</i> 146:146-152, Academic Press, Inc. (1985).				

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Breble Chemdru

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5/28/04

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
09420349000B/EWE/MTTAPPLICATION NO.  
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Kotewicz et al.FILING DATE  
December 21, 2001GROUP  
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	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Spc ↓	AR	2	Michel, F. and Lang, B.F., "Mitochondrial class II introns encode proteins related to the reverse transcriptases of retroviruses," <i>Nature</i> 316:641-643, Macmillan Journals Ltd. (1985).
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	AT	2	Resnick, R. et al., "Involvement of Retrovirus Reverse Transcriptase-Associated RNase H in the Initiation of Strong-Stop DNA Synthesis and the Generation of the Long Terminal Repeat," <i>J. Virology</i> 51(3):813-821, American Society for Microbiology (1984).

EXAMINER

B. B. Chunduru

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5/28/04

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FORM PTO-1449

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>SPC</i>	AR	<u>10</u>	Roth, M.J. et al., "Purification and Characterization of Murine Retroviral Reverse Transcriptase Expressed in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 260(16):9326-9335, American Society of Biological Chemists, Inc. (1985).
	AS	<u>10</u>	Shinnick, T.M. et al., "Nucleotide sequence of Moloney murine leukaemia virus," <i>Nature</i> 293:543-548, Macmillan Journals Ltd. (1981).
	AT	<u>10</u>	Smith, J.K. et al., "Initiation of Plus-Strand DNA Synthesis During Reverse Transcription of an Avian Retrovirus Genome," <i>J. Virology</i> 49(1):200-204, American Society for Microbiology (1984).

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*Bibla Choudhury*

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*8/28/04*

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942/049010B/EWE/MTT	APPLICATION NO. 10/024,131
	APPLICANTS Kotewicz et al.	
	FILING DATE December 21, 2001	GROUP 1652

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	AR	11	Tanese, N. et al., "Analysis of Retroviral pol Gene Products with Antisera Raised against Fusion Proteins Produced in <i>Escherichia coli</i> ," <i>J. Virology</i> 59(2):328-340, American Society for Microbiology (1986).
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	AT	11	Telesnitsky, A. and Goff, S.P., "RNase H domain mutations affect the interaction between Moloney murine leukemia virus reverse transcriptase and its primer-template," <i>Proc. Natl. Acad. Sci. USA</i> 90:1276-1280, National Academy of Sciences 1993.

EXAMINER <u>Prabha Chenduru</u>	DATE CONSIDERED <u>5/28/04</u>
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942,049000B/RWE/MTT	APPLICATION NO. 10/024,131
	APPLICANTS Kotewicz et al.	
	FILING DATE December 31, 2001	GROUP 1652

## U.S. PATENT DOCUMENTS

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	AN						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SPE ↓	AR	12	Toh, H. et al., "Sequence homology between retroviral reverse transcriptase and putative polymerases of hepatitis B virus and cauliflower mosaic virus," <i>Nature</i> 305:827-829, Macmillan Journals Ltd. (1983).
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EXAMINER

Bralha Chunduru

DATE CONSIDERED

8/28/04

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.049003B/RWE/MTT	APPLICATION NO. 10/024,131
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>SRC</i>	AR	13	Zoller, M.J. and Smith, M., "Oligonucleotide-Directed Mutagenesis of DNA Fragments Cloned into M13 Vectors," <i>Methods in Enzymology</i> 100:468-500, Academic Press, Inc. (1983).
	AS		
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EXAMINER <i>Paabha Chenduru</i>	DATE CONSIDERED <i>5/28/04</i>
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